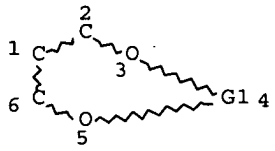
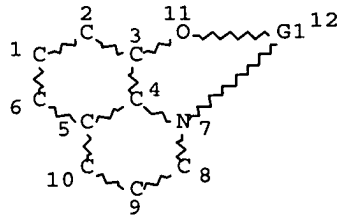
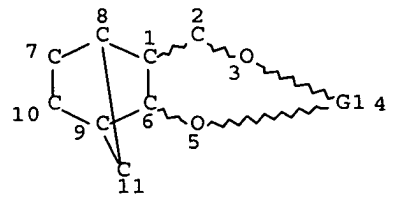
```
=> d que l52
L2            10 SEA FILE=REGISTRY ABB=ON  PLU=ON  (17067-62-8/BI OR
                 17631-68-4/BI OR 17978-77-7/BI OR 18323-96-1/BI OR
                 188037-40-3/BI OR 355-74-8/BI OR 7440-52-0/BI OR 77974-92-6
                 /BI OR 802-93-7/BI OR 813468-12-1/BI)
L3               STR
```



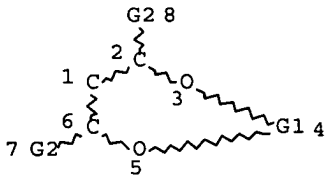

```
VAR G1=ER/PR/ND
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   6

STEREO ATTRIBUTES: NONE
L5               STR
```




```
VAR G1=ER/PR/ND
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  12

STEREO ATTRIBUTES: NONE
L8          3295 SEA FILE=REGISTRY SSS FUL (L3 OR L5)
L11              STR
```



```
VAR G1=ER/PR/ND
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  11

STEREO ATTRIBUTES: NONE
L13          27 SEA FILE=REGISTRY SUB=L8 SSS FUL L11
L15         194 SEA FILE=REGISTRY SUB=L8 SSS FUL L5
L16             STR
```




```
VAR G1=ER/PR/ND
VAR G2=AK/CB
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS   8

STEREO ATTRIBUTES: NONE
L18        1667 SEA FILE=REGISTRY SUB=L8 SSS FUL L16
L19           3 SEA FILE=REGISTRY ABB=ON  PLU=ON  L2 AND 1-100/SI
L20          67 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13
L21         133 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L15
L22        1410 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L18
L24       11504 SEA FILE=HCAPLUS ABB=ON  PLU=ON  SILSESQUIOXANES+PFT,NT/CT

L25           3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND L24
L26           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND  BRIDGED POLYSESQU
                IOXAN?
L27           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND  BRIDG?(2A)POLYSES
                QUIOXAN?
L28           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND  BRIDG?(2A)SILSESQ
                UIOXAN?
L29           3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND SILSESQUIOXAN?
L30           3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L25 OR L26 OR L27 OR L28
                OR L29)
L31          11 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19
L32           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND L31
L33           2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND HOST(2A)MATRI?
L34          41 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L22 AND MATRI?
L35          30 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L34 AND OPTIC?/SC,SX
L36          32 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L30 OR L32 OR L33 OR L35
```

```
L39          0 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 AND (L24 OR  BRIDG?(2A
               )SILSESQUIOXAN? OR  BRIDG?(2A)POLYSESQUIOXAN? OR SILSESQUIO
               XAN?)
L40          1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 AND SILI?
L41          1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 AND MATRI?
L42         14 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L20 AND OPTIC?/SC,SX
L43         16 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L39 OR L40 OR L41 OR L42
L44          0 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L21 AND (L24 OR  BRIDG?(2A
               )SILSESQUIOXAN? OR  BRIDG?(2A)POLYSESQUIOXAN? OR SILSESQUIO
               XAN?)
L45          4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L21 AND MATRI?
L46         65 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L21 AND OPTIC?/SC,SX
L47          1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L46 AND HOST?
L48          0 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L46 AND SESQUIOX?
L49         20 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L46 AND DEV/RL
L50         23 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L44 OR L45 OR L47 OR L48
               OR L49
L51         71 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L36 OR L43 OR L50
L52         54 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L51 AND (1840-2003)/PRY,AY
               ,PY
```

```
=> d l52 1-54 ibib ed abs hitstr hitind
```

L52 ANSWER 1 OF 54 HCAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:210023 HCAPLUS Full-text
DOCUMENT NUMBER: 142:268924
TITLE: Highly rare earth-doped polymer optical materials, optical amplifiers using them, and method for manufacture of the amplifiers
INVENTOR(S): Sasaki, Shinya; Yamagishi, Yasuo
PATENT ASSIGNEE(S): Fujitsu Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005064025	A	20050310	JP 2003-207271 <--	20030812
PRIORITY APPLN. INFO.:			JP 2003-207271 <--	20030812

ED Entered STN: 10 Mar 2005

AB The materials are manufactured by mixing M alkoxides (M = Er, Eu, Pr, Y) with polysilanes SiR1R2SiR3R4 [R1-R4 = Ph, Me, Et, OMe, OEt, OSiO (crosslinked)] or organic-inorg. hybrid materials manufactured from RSi(OR5)3 [R = (CX2)n CH:CHCO2R6; X = H, F; R5 = Me, Et, Pr; R6 = H, Me, Et, C2F5; n = 1-3]. The method includes forming first cladding layers, applying the above materials to give core layers, forming second cladding layers, and patterning the core and second cladding layers to give optical waveguides. The materials show high content of rare earth elements without aggregation, resulting in small-sized optical amplifiers.

IT **14553-08-3**, Tris(acetylacetonato)erbium
(high rare earth-doped polymer optical materials as core layers for optical amplifiers)

RN 14553-08-3 HCAPLUS

CN Erbium, tris(2,4-pentanedionato-κO,κO')-, (OC-6-11)- (9CI)

```
=> d his nofile

     (FILE 'HOME' ENTERED AT 08:08:56 ON 04 DEC 2007)

     FILE 'HCAPLUS' ENTERED AT 08:09:04 ON 04 DEC 2007
L1             1 SEA ABB=ON  PLU=ON  US20040263952/PN
                 SEL RN

     FILE 'REGISTRY' ENTERED AT 08:09:18 ON 04 DEC 2007
L2            10 SEA ABB=ON  PLU=ON  (17067-62-8/BI OR 17631-68-4/BI OR
                 17978-77-7/BI OR 18323-96-1/BI OR 188037-40-3/BI OR
                 355-74-8/BI OR 7440-52-0/BI OR 77974-92-6/BI OR 802-93-7/BI
                  OR 813468-12-1/BI)
L3               STR
L4            50 SEA SSS SAM L3
L5               STR
L6            12 SEA SSS SAM L5
L7            50 SEA SSS SAM (L3 OR L5)
L8          3295 SEA SSS FUL (L3 OR L5)
L9               STR L3
L10            1 SEA SUB=L8 SSS SAM L9
L11              STR L9
L12            2 SEA SUB=L8 SSS SAM L11
L13           27 SEA SUB=L8 SSS FUL L11
                 SAV L8 MAT690/A
                 SAV L13 MAT690A/A
L14           12 SEA SUB=L8 SSS SAM L5
L15          194 SEA SUB=L8 SSS FUL L5
                 SAV L15 MAT690B/A
L16              STR L3
L17           50 SEA SUB=L8 SSS SAM L16
L18         1667 SEA SUB=L8 SSS FUL L16
                 SAV L18 MAT690C/A
L19            3 SEA ABB=ON  PLU=ON  L2 AND 1-100/SI

     FILE 'HCAPLUS' ENTERED AT 08:28:19 ON 04 DEC 2007
L20           67 SEA ABB=ON  PLU=ON  L13
L21          133 SEA ABB=ON  PLU=ON  L15
L22         1410 SEA ABB=ON  PLU=ON  L18
L23            1 SEA ABB=ON  PLU=ON  L1 AND L22
                 E  SILSESQUIOXANES/CT
L24        11504 SEA ABB=ON  PLU=ON  SILSESQUIOXANES+PFT,NT/CT
L25            3 SEA ABB=ON  PLU=ON  L22 AND L24
L26            1 SEA ABB=ON  PLU=ON  L22 AND  BRIDGED POLYSESQUIOXAN?
L27            1 SEA ABB=ON  PLU=ON  L22 AND  BRIDG?(2A)POLYSESQUIOXAN?
L28            1 SEA ABB=ON  PLU=ON  L22 AND  BRIDG?(2A)SILSESQUIOXAN?
L29            3 SEA ABB=ON  PLU=ON  L22 AND SILSESQUIOXAN?
L30            3 SEA ABB=ON  PLU=ON  (L25 OR L26 OR L27 OR L28 OR L29)
L31           11 SEA ABB=ON  PLU=ON  L19
L32            1 SEA ABB=ON  PLU=ON  L22 AND L31
L33            2 SEA ABB=ON  PLU=ON  L22 AND HOST(2A)MATRI?
L34           41 SEA ABB=ON  PLU=ON  L22 AND MATRI?
L35           30 SEA ABB=ON  PLU=ON  L34 AND OPTIC?/SC,SX
L36           32 SEA ABB=ON  PLU=ON  L30 OR L32 OR L33 OR L35
L37            3 SEA ABB=ON  PLU=ON  L36 AND HOST?
L38           32 SEA ABB=ON  PLU=ON  L36 OR L37
L39            0 SEA ABB=ON  PLU=ON  L20 AND (L24 OR  BRIDG?(2A)SILSESQUIOXA
                 N? OR  BRIDG?(2A)POLYSESQUIOXAN? OR SILSESQUIOXAN?)
```

```
L40          1 SEA ABB=ON  PLU=ON  L20 AND SILI?
L41          1 SEA ABB=ON  PLU=ON  L20 AND MATRI?
L42         14 SEA ABB=ON  PLU=ON  L20 AND OPTIC?/SC,SX
L43         16 SEA ABB=ON  PLU=ON  L39 OR L40 OR L41 OR L42
L44          0 SEA ABB=ON  PLU=ON  L21 AND (L24 OR  BRIDG?(2A)SILSESQUIOXA
               N? OR  BRIDG?(2A)POLYSESQUIOXAN? OR SILSESQUIOXAN?)
L45          4 SEA ABB=ON  PLU=ON  L21 AND MATRI?
L46         65 SEA ABB=ON  PLU=ON  L21 AND OPTIC?/SC,SX
L47          1 SEA ABB=ON  PLU=ON  L46 AND HOST?
L48          0 SEA ABB=ON  PLU=ON  L46 AND SESQUIOX?
L49         20 SEA ABB=ON  PLU=ON  L46 AND DEV/RL
L50         23 SEA ABB=ON  PLU=ON  L44 OR L45 OR L47 OR L48 OR L49
L51         71 SEA ABB=ON  PLU=ON  L36 OR L43 OR L50
L52         54 SEA ABB=ON  PLU=ON  L51 AND (1840-2003)/PRY,AY,PY
```